

## ABSTRACT OF THE DISCLOSURE

An ultra wideband (UWB) transceiver and a UWB signal transmitting and receiving method are provided, wherein data transmission can be efficiently performed according to channel condition by forwarding channel information obtained from a received signal to a data transmitter and changing the data transmission scheme in the transmitter according to the received channel condition, contrary to a related art UWB transceiver. In the UWB transceiver, channel information is calculated from a UWB pulse signal received over a UWB channel so that a UWB channel condition can be predicted and a data transmission scheme is changed according to the calculated channel information, whereby information transmission can be efficiently made according to the UWB channel condition. Thus, there is an advantage in that efficient data transmission/reception can be made by changing the data transmission scheme in accordance with the UWB channel condition.